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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/762,913	01/22/2004	Steve Wang	15436.269.1	6148
7590 08/25/2006			EXAMINER	
Eric Maschoff			ERDEM, FAZLI	
WORKMAN NYDEGGER				
1000 Eagle Gate Tower			ART UNIT	PAPER NUMBER
60 East South Temple			2826	
Salt Lake City, UT 84111			DATE MAILED: 08/25/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/762,913	WANG ET AL.			
Office Action Summary	Examiner	Art Unit			
	Fazli Erdem	2826			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from to become ABANDONED	l. ely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 21 Ju	<u>uly 2006</u> .				
· <u>=</u>	This action is FINAL. 2b)⊠ This action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☑ Claim(s) <u>5-20</u> is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) ☑ Claim(s) <u>9-20</u> is/are allowed. 6) ☑ Claim(s) <u>5-8</u> is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the Eddrawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	te			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal Page 6) Other:	atent Application (PTO-152)			

DETAILED ACTION

After further search and consideration this action was issued and made final.

Allowable Subject Matter

1. Claims 9-20 allowed.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 5-8 rejected under 35 U.S.C. 103(a) as being unpatentable over Irikawa et al. (WO97/08757) in view of Sawada et al. (5,475,256)

Regarding Claims 5-8, Irikawa et al. disclose a waveguide type photodetector where in Fig. 2 it is disclosed a substrate 22, a detecting layer 14 formed on the substrate wherein an optical signal from a light source I focused on the detecting layer 14 and an attenuation layer 18 disposed between the detecting layer 14 and the light source I such that the incident optical signal passes through the attenuation layer. Iriwaka et al. fail to disclose the attenuation layer to be a PIN structure. However, Sawada et al. disclose an opto-electronic integrated circuit where in Fig. 4, attenuation layer 100 is specified as to be a PIN structure.

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the required PIN structure for the attenuation layer in Art Unit: 2826

Irikawa et al. as taught by Sawada et al. in order to have a photodetector device with increased flexibility.

Regarding Claim 6, PIN structure of Sawada et al. has a thickness.

Regarding Claims 7 and 8, PIN structure of Sawada et al. is either biased forward or reverse.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LEONARDO ANDUARA PRIMARY EXAMINER Application/Control Number: 10/762,913

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August 19, 2006

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